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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-----------------|----------------------|--------------------------|------------------|
| 10/661,257 | 09/12/2003 | Rory Smith | 1116109-0012-CIP | 7776 |
| 26874 | 7590 12/02/2004 | | EXAMINER | |
| FROST BROWN TODD, LLC | | | SAINT SURIN, JACQUES M | |
| 2200 PNC CENTER 201 E. FIFTH STREET | | | ART UNIT | PAPER NUMBER |
| | TI, OH 45202 | | 2856 | |
| | · · | | DATE MAIL ED. 12/02/2004 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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|---|---|--|--|--|--|--|
| | Application No. | Applicant(s) | | | | |
| Office Action Summany | 10/661,257 | SMITH ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| The MAIL INC DATE of this communication and | Jacques M Saint-Surin | 2856 | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 19 D | ecember 2003 and 12 Septembe | <u>r 2003</u> . | | | | |
| ,— | s action is non-final. | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) 18 is/are allowed. 6) Claim(s) 1-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o | wn from consideration. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11. | cepted or b) objected to by the drawing(s) be held in abeyance. Set tion is required if the drawing(s) is objected to by the large transfer in the drawing(s) is objected to by the large transfer in the drawing(s) is objected to by the large transfer in the large trange transfer in the large transfer in the large transfer in the | e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d). | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 09/12/03. | 4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other: | | | | | |

DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-17 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-2 of U.S. Patent No. 6,662,660 in view of Schafer et al. (US Patent 6,276,209). Claims 1-2 of the instant application differ from claims 1-2 of the Smith Patent '660 by reciting a second receiver and a variation of words in the limitations of the claims. Schafer teaches a transmitter, one ultrasonic receiver disposed on the same surface of the wooden member and at least one ultrasonic receiver may also be placed on the opposite side of the wooden member from the ultrasonic transmitter (see: col. 3, lines 9-19). Schaefer further teaches in order to further improve the quality detection capabilities, several receivers, R1, R2, R3, can be placed to receive the waves generated by a single transmitter, T1, as shown in FIG. 8, see: col. 6, lines 28-31. It would have been obvious to one having ordinary skill in 6the art at the time of the invention to utilize in Smith the techniques of Schaefer because it would provide means to detect ultrasonic wave motions, e.g., a

longitudinal wave in the radial direction, traveling through the wooden member wherein the received multiplicity of waveforms are processed to determine anomalies and variations in the aramid fiber at positions of the aramid fiber between the ultrasonic transmitter and the ultrasonic receiver(s) by, for example, comparing the measured values to references values taken from a reference aramid fiber to determine if variations are present.

Regarding claims 3-17, they are also rejected as being dependent from rejected base claim.

Allowable Subject Matter

3. Claim 18 is allowable over the prior art of record.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hancock et al. (US Patent 6,164,137) discloses an electromagnetic acoustic transducer (EMAT) inspection of tubes for surface defects.

Kwun et al. (US Patent 5,456,113) discloses a nondestructive evaluation of ferromagnetic cables and ropes using magnetostrictively induced acoustic/ultrasonic waves and magnetostrictively detected acoustic emissions.

Ashida et al. (US Patent 6,450,036) discloses a method and device for diagnosing deterioration of an article having at least a covering layer organic polymer material.

Kwun et al. (US Patent 4,979,125) discloses a non-destructive evaluation of ropes by using transverse impulse vibrational wave method.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacques M Saint-Surin whose telephone number is (571) 272-2206. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (703) 305-4705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jacques M. Saint-Surin November 24, 2004

> HEZRÖN WILLIAMS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800